



Status of Implementing Specs and Standards Reform in DoN

Presented to NARSOC

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CDR USN

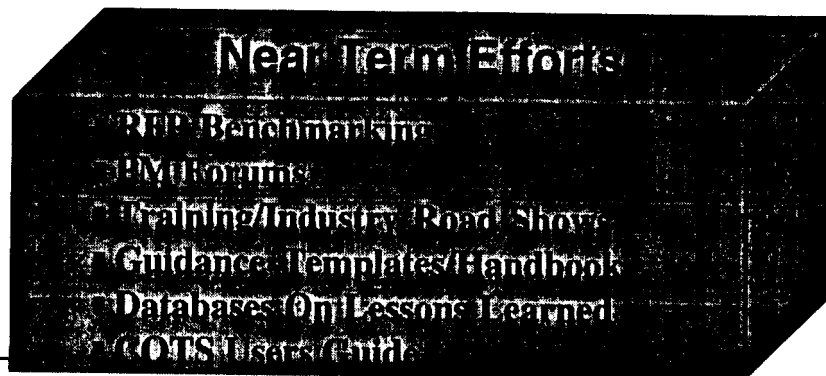
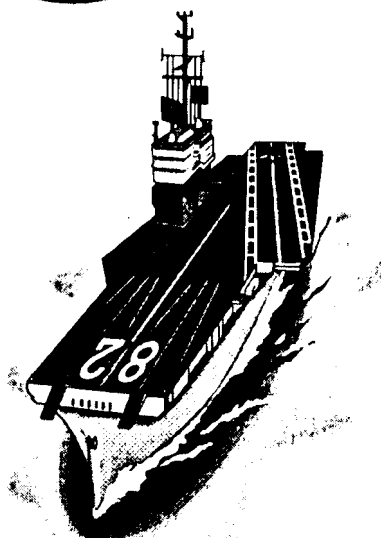
9 Nov'95



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Specs & Stds Reform

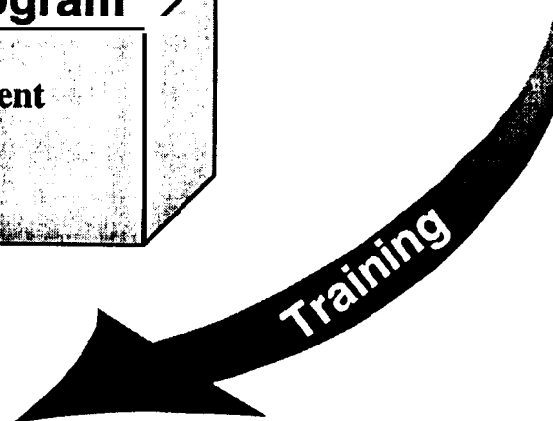


Long Term Program

- Spec/Std Improvement

Long Term Results

- Dual-Use Industrial Base
- Reduced Cost Procurements With Performance Specs
- Access To Commercial Technology & Practices





Facilitate Performance-Oriented Solicitation Process

- **Performance-Based RFPs are being Benchmarked**
- **Forums for Sharing Lessons Learned on Preparing Performance-Based Solicitations are being Conducted**
- **Database on Waived Specs and Stds and RFP Benchmarking Lessons Learned is Available on ARO Home Page, <http://www.acq-ref.navy.mil>**
- **Guidance Templates for Performance-based RFPs are being Prepared [Sponsor PEO (TAD)]**





Facilitate Performance-Oriented Solicitation Process (cont'd)

- **Automated Performance Specification Generation Tool Has Been Developed (SPECRITE) to Assist in Writing Specifications**
- **COTS User Documentation is Being Collected and Consolidated into User's Guide**
- **Program Manager's Work Station Database is Available to Assist Program Offices**
- **Joint Service Guide Specs are Being Developed for Aviation-related Systems Including Structures, Engines, Avionics**
- **JACG-IPT is Addressing Impacts on Source Selection and Contracts from Using Performance-based Solicitations**



RFP Benchmarking (Completed Actions)

<i>Program Name</i>	<i>Program Office</i>	<i>ACAT</i>	<i>Date Began</i>	<i>Date Complete</i>	<i>Prior to RFP Release/Post Contract Award</i>
MK 48 ADCAP MODS TORPEDO	PMO 402	I I	23 June	27 June	Post
NSSN Command, Control, Communication, and Intelligence Prime	PMO 401	I D	24 July	26 July	Prior
Joint Tactical Unmanned Aerial Vehicle Maneuver Variant	PEO(CU) ID		28 Aug	30 Aug	Prior
NATO Improved Link Eleven	PMW159	IV	10 Oct	16 Oct	Prior



RFP Benchmarking Schedule

<i>Program Name</i>	<i>Program Office</i>	<i>ACAT</i>	<i>Date</i>	<i>Prior to RFP Release/Post ContractAward</i>
<i>AIM-9x</i>	<i>PMA259</i>	<i>I</i>	<i>Nov</i>	<i>Prior</i>
<i>Remote Minehunting System</i>	<i>PM0407</i>	<i>III</i>	<i>Nov</i>	<i>Prior</i>
<i>Light Weight Hybrid Torpedo</i>	<i>PEO (USW)</i>	<i>III</i>	<i>Nov</i>	<i>Prior</i>
<i>9 Meter Improved Surface Towed</i>	<i>PMS325</i>	<i>IV</i>	<i>Dec</i>	<i>Post Award</i>

***ARO POC Bill Mackinson
602-5508***



Program Manager's Forum Presentations

Date	Program Office	Program
20 March 95	PMO 401 PMO 402 PEO (TAD) DRPM AAA	ASTECS/Photonics MK48/ADCAP Standard Missile BLK IV Advanced Amphibious Assault Vehicle
16 May 95	PMA 248 PMA 209 PMA 258	Joint Tactical Combat Training System ARC-210 SLAM-ER
20 July 95	PMW 176 PMA 201 ASC Eglin AFB	AN/WSC-6(V) (Phase III) SHF SATCOM Terminal Joint Direct Attack Munition
26 Sep 95	PMO 411 PEO (TAD) C	Surface ASW Combat System- AN/SQQ-89 (v) x Cooperative Engagement Capability



Military Specifications and Standards Department-Wide Waivers Granted

Docume n	Title
MIL-S-901	Shock Test, High Impact, Shipboard Machinery Equipment & System Requirements
MIL-STD-1316	Fuze Safety Design Requirements
MIL-STD-1385	Preclusion of Ordnance Hazards in Electromagnetic Fields; General Requirements
MIL-STD-1388-2B	DoD Requirements for a Logistics Support Analysis Record
MIL-STD-1425	Safety Design Requirements for Military Lasers and Associated Support Equipment
MIL-STD-1512	Electric Initiators, Safety Requirements
MIL-STD-1751	Safety and Performance Tests for the Qualification of Explosives



Military Specifications and Standards Department-Wide Waivers Granted

Document	Title
MIL-STD-1901	Munition Rocket and Missile Motor Ignition System Design, Safety Criteria
MIL-STD-1911	Hand Emplaced Ordnance Systems, Safety Design Requirements
MIL-STD-2105	Hazard Assessment Tests for Navy Non-Nuclear Ordnance
MIL-I-23659	Initiators, Electric, General Design Specification
MIL-M-87268	Manual, Interactive Electronic Technical (IETM): General Content, Style, Format, and User Interaction Requirements for
MIL-D-87269	Data Base, Revisable: Interactive Electronic Technical Manuals (IETM) for the Support of
MIL-STD-704	Aircraft Electronic Power Characteristics



Military Specifications and Standards Department-Wide Waivers Granted

Document	Title
MIL-STD-129M	DoD Requirements for Marking for Shipment and Storage
MIL-STD-331	Safety Test Requirements for Fuzes and Fuze Components
MIL-STD-461	Electromagnetic Emissions and Susceptibility Requirements
MIL-STD-462	Measurement of Electromagnetic Interference Characteristics
MIL-STD-498	Software Development and Documentation
MIL-S-705	Ammunition Color Coding
MIL-STD-882	System Safety Program Requirements



SPECRITE

Performance Spec Generator

Objective --

- **Develop a PC-based Performance Specification Generator Based on Expert Knowledge Across the Services to Guide Acquisition Personnel in Creating Specifications for Their Requirements**
 - **Captures Knowledge**
 - **Imbeds Guidance**
 - **Results in Properly Formatted Performance Specification**

Sponsored by N43 and ONR
Developed by NSWC Crane Division
POC Steven Gilstrap
812-854-2123



Program Manager's Work Station

Objective --

- **Provide a PC-based Expert System that has Knowledge, Insight, and Experience on How to Manage a Program and How to Find Solutions that Industry Leaders are Using to Reduce Technical Risk and Improve Quality and Productivity**

Three Main Components:

- **Knowledge - Automated Information Access System**
- **Insight - a Technical Risk Identification and Mitigation System**
- **Experience - Database of Proven Solutions to Technical Problems**

***Developed by
Center of Excellence for Best Manufacturing Practices
POC Ernie Renner
301-403-8100***





Acquisition Reform Examples/Approaches

■ AN/ARC-21(V) Electronic Protection Radio



FY94 Baseline

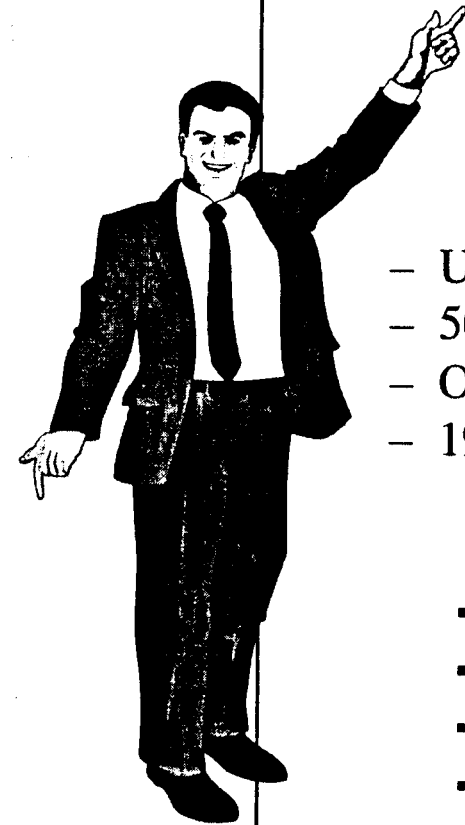
- Unit Cost of \$50.6K
- 500 Hrs MTBF Fleetwide
- Obsolete Parts
- 1980s Technology

Because of Acquisition Reform in 1999

- Unit Cost of 38K
- 1,000 Hrs MTBF Fleetwide
- No Obsolescence
- 1990s Technology
- 5 Years Savings of \$65M

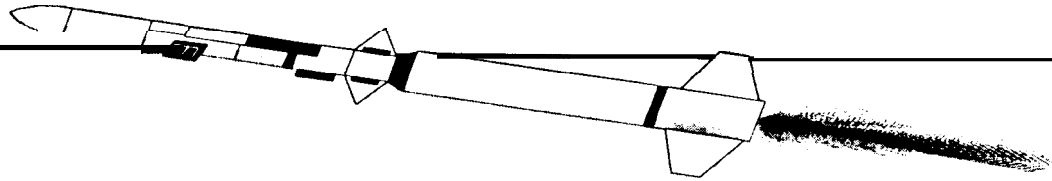
How ?

- ➔ Streamlining of Requirements and Deliverables
- ➔ Government/Industry Partnership
- ➔ Reliability Improvement Warranty
- ➔ Commercial Deep-Level Maintenance





Acquisition Reform Examples/ Approaches (cont'd)



■ Standard Missile Program, SM-2 Block IV

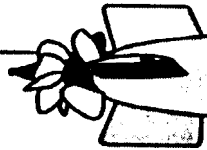
- Reduction in MIL-SPECs and Standards From 457 to 22
- Reduction in Data Requirements From 525 to 242
- Reduction in Test Equipment Certifications From 55 to 12

How?

- ➔ Government/Industry Partnership
- ➔ Contractor Submission of Single Management Plan
- ➔ Government Controls Top Level Requirements Only
- ➔ Extended Contractor Warranty



Acquisition Reform Examples/ Approaches (cont'd)



■ Multi-Sensor Torpedo Recognition and Alertment Processor (MSTRAP)

- Reduction in Development Cost From Over \$1M to Under \$300K
- Reduced Development Time by More Than Half of the Original Schedule

How?

- ➔ COTS Hardware and Software
- ➔ Reduced Documentation Requirements
- ➔ Open Systems Practices and Standards
- ➔ Integrated Product Teams

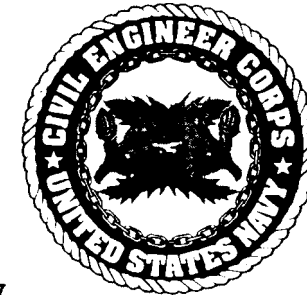


Acquisition Reform Examples/ Approaches (cont'd)



■ Naval Medical Center, Portsmouth

- Partnering
- Quality is Designed In, not Inspected In
- 50% Award Fee Emphasis is on Quality
- Disagreements Review Board - Alternative Dispute Resolution

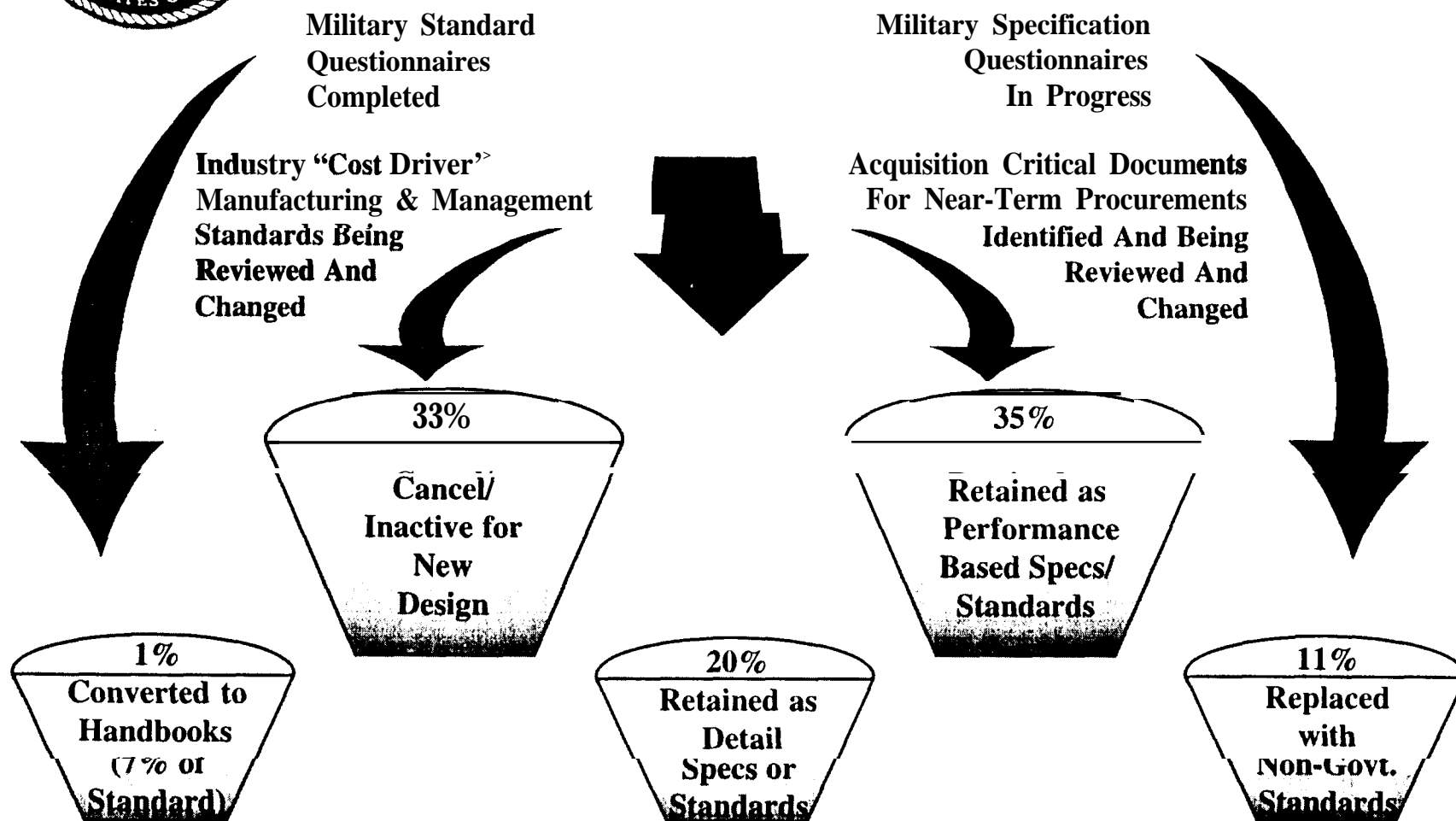


■ Navy Public Works Center, Norfolk

- Partnering with Customers
- Benchmarking
- Performance-Based Contracting
- Long Range Maintenance Planning - World Class Program



Implement Document Improvement For Mil-Specs & Standards





Implementing Document Improvement Key Events

- **Complete MIL-Spec Questionnaires**
- **Complete Document Changes to “Priority” MIL-Specs & Stds**
- **Identify and Eliminate Unnecessary DIDs**
- **Complete Document Changes to Remaining MIL-Specs & Stds**

**Oct
'95**

**Jun
'96**

**Mar
'97**

**NGS
Development**

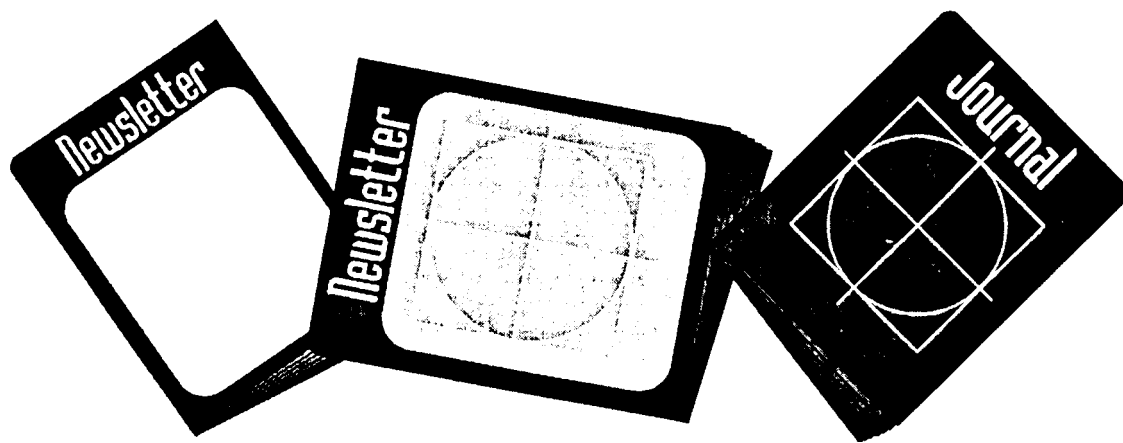
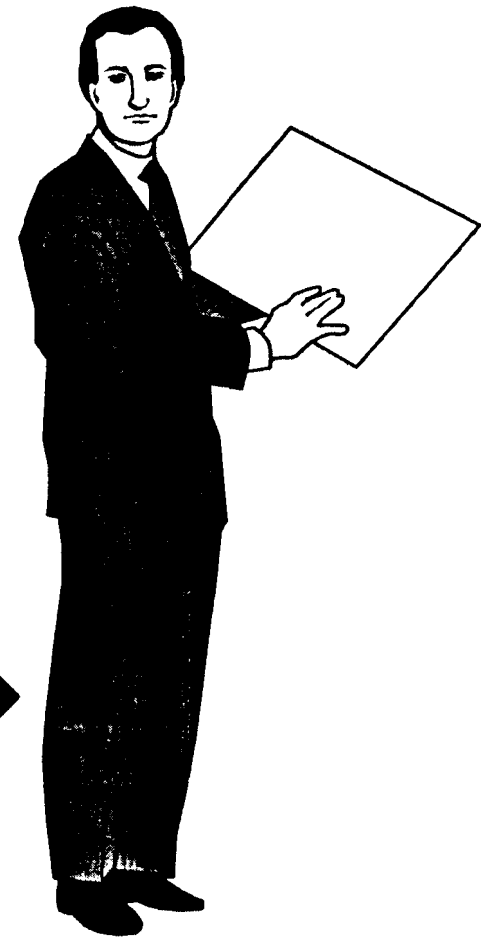
**Nov
'96**

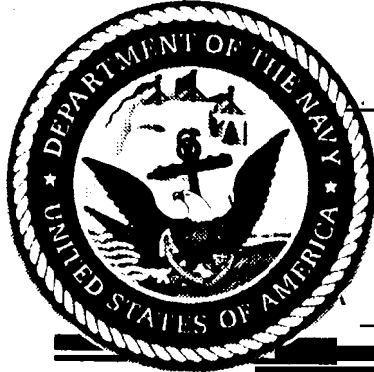
**Mar
'98**



Facilitate Cultural Change

- **Conduct Key Functional Area Training**
- **Prepare Newsletters/Articles**
- **Conduct Road Shows**





Specifications and Standards Reform Training Modules

Title	Attendance
• Writing Performance Specifications	1,318
• Performance-Based Statements of Work	273
• Best Value Source Selection	50
• Performance Specifications Impacts on Life Cycle Support	25
• Military Standards Conversion (ECD of course 11/95)	
• Automation Tools (ECD of course 3/96 by Defense Printing Service)	

INDUSTRY ROADSHOW

- Navy is hosting a series of RoadShows to get the acquisition reform message out to small businesses
- RoadShows will provide tutorials on performance specifications, conversion to commercial standards, simplified acquisition procedures, performance based contracting, and integrated product teams
- Supporting Agencies
 - ADPA
 - SADBUI
 - OFPP
 - Industry

•Schedule

24-25 January 96 - Arlington, VA

13-14 February 96 - San Diego, CA

13-14 March 96 - Dallas, TX

09-10 April 96 - Jacksonville, FL

ARO POC Janettarose Greene, 602-5508



Navy Acquisition Reform Soliciting Industry Feedback

- **Solicited Industry Feedback on DoN Implementation of Specifications and Standards Reform**
 - **Published in Commerce Business Daily**
 - **Nine Responses from Diverse Defense Industries**
- **Overall Consensus that DoN is Expending Significant Effort and Achieving Results**
- **Successes Called Out:**
 - **LPD 17 Shipbuilding Program**
 - **SQQ-89 Derivative MSTRAP Program**
 - **Active and Passive Sonabuoy Program**
 - **AEGIS Shipbuilding Program**



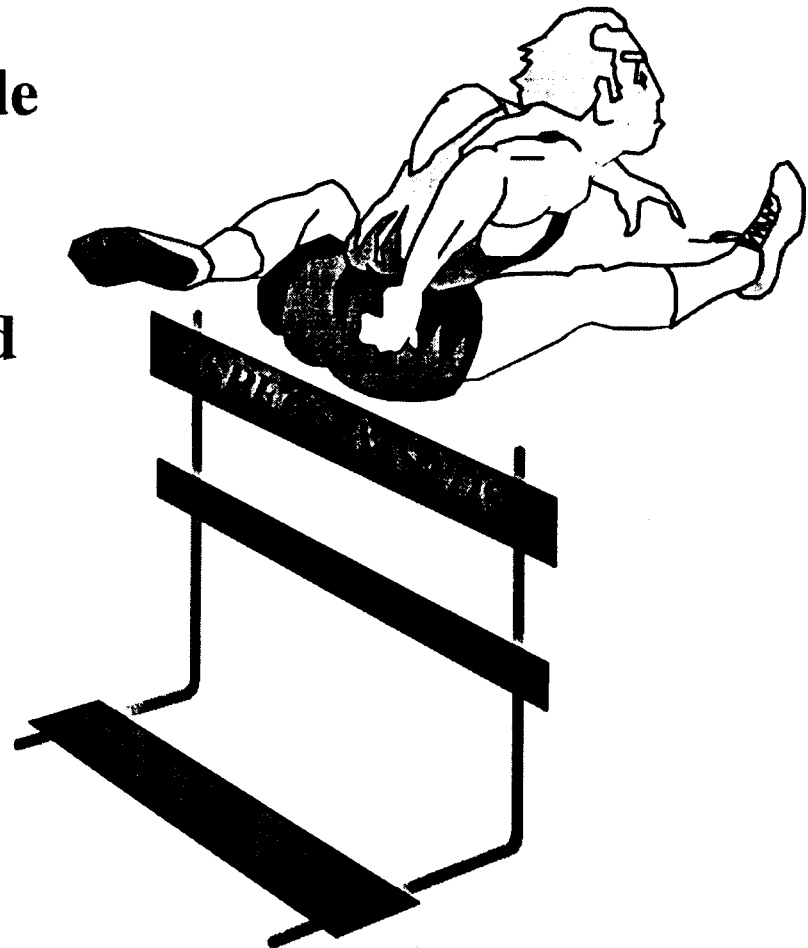
Commerce Business Daily Response Areas for Improvement

- **Accelerate Implementation of Acquisition Reform Principles to the Contracting Process**
- **Provide Additional Guidance on COTS Usage and On Subsequent Supportability Requirements**
- **Increase Government/Industry Exchange in Forums, Meetings, or Electronically to Facilitate Cultural Integration**
- **Increase Training, Especially for Government Specification Writers, Proposal Evaluators, and Contracting Officers**
- **Reduce Contract Documentation Requirements, and Streamline Documentation Review and Approval Process**



Challenge/Priorities In Specs & Standards Reform Implementation

- **Completion of OASD Schedule for Document Improvements**
- **Provide Tools for PM in Preparing Performance-based Solicitations**
- **Improve Communication of Lessons Learned**
- **Application of Reform to Reprocurements**
- **Implement Single Process Facility Initiative**

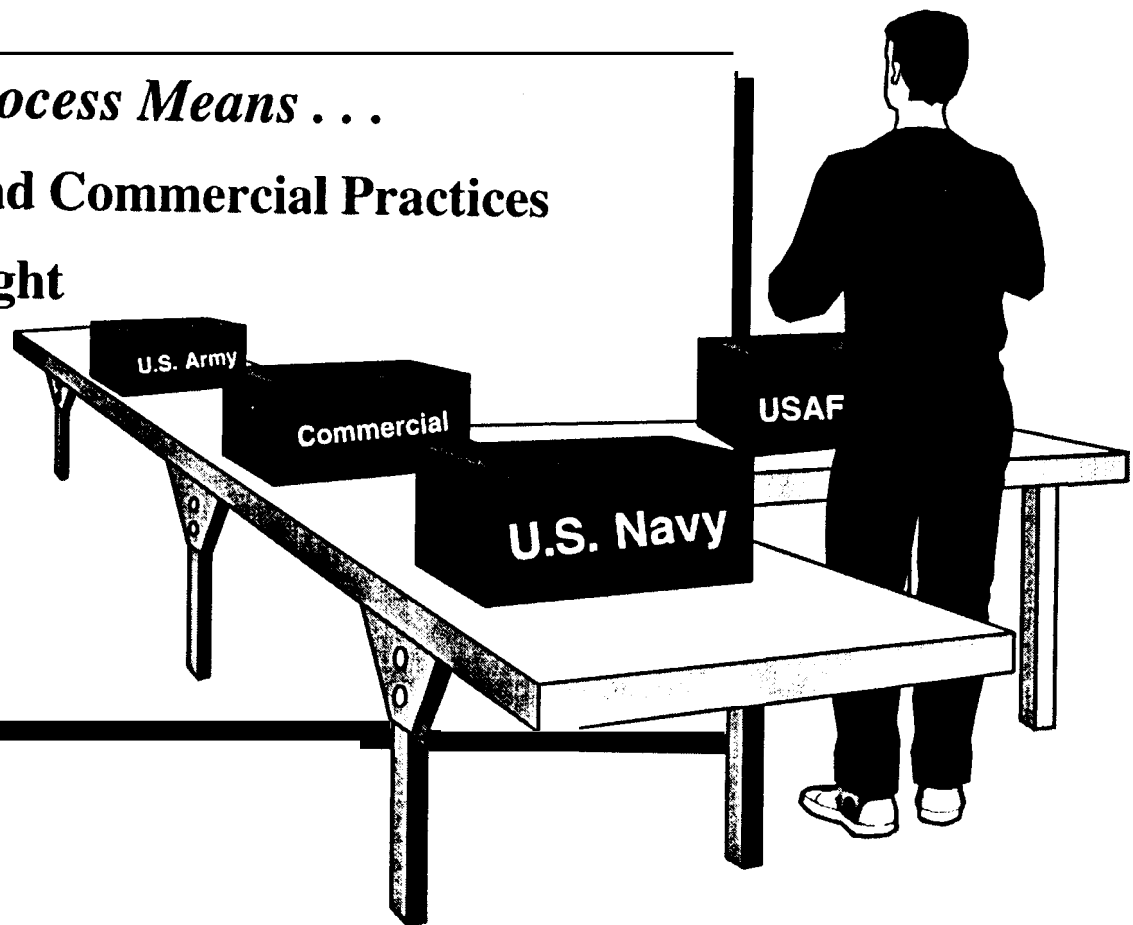




Single Process Initiative

Single Process Means . . .

- Performance Specs and Commercial Practices
- Common DoD Oversight
- Dual Commercial-Military Use Facilities
- Economy of Scale
- Process and Product Improvements





What I Need From You

- **Copies of ACAT I-IV Program Approved Specs & Standards Waivers with Justification**
- **Nominees for PM Forum Presentations of Acquisition Reform Accomplishments**
- **Feedback on (Soon to be Electronically Released) Acquisition Reform Information Resources Questionnaire to Aid in Improving Information Exchange and Sharing of Lessons Learned**
- **Submission of Quarterly Metric Data on Numbers of ACAT I-III Contracts Awarded, RFPs Released, and Requirement Documents (One of the USD (A&T) Acquisition Reform Strategic Outcome Commercial Practice Metrics)**
- **Feedback on Utility of SPECRITE Performance Spec Generation Tool**